

What is claimed is:

1. A lock of information reproducer for car, comprising:

a contact support unit fixed to an inner side of a car so as to have a  
5 receiving space for receiving an information reproducer;

a separation preventive groove formed at one of the top surface or bottom  
surface of the information reproducer;

a separation preventive member installed in the contact support unit in  
order to restrict detachment of the information reproducer inserted into the  
10 receiving space by being selectively inserted into the separation preventive  
groove;

a fixing groove formed at one of the top surface or bottom surface  
of the information reproducer;

a position fixing member installed in the contact support unit so as to be  
15 movable up and down elastically in order to fix a position of the information  
reproducer inserted into the receiving space by being selectively inserted into the  
fixing groove;

a rotary disk rotatively installed in the contact support unit in order to move  
the separation preventive member and the position fixing member up and down  
20 selectively;

a rotary disk driving means installed in the contact support unit in order to  
rotate the rotary disk; and

a release button installed at a side of the contact support unit in order to  
release elective connection between the information reproducer and the contact  
25 support unit selectively.

2. The lock of claim 1, wherein a cam contact surface is formed at a side of the separation preventive member, a separation preventive member cam is formed at the rotary disk so as to be selectively contacted with the cam contact surface of the separation preventive member, and a spring is installed at the separation preventive member in order to support the separation preventive member elastically.

3. The lock of claim 1, wherein the rotary disk driving means includes:

- a rotary disk gear unit formed at the outer circumference of the rotary disk;
- a rack member combined with the gear unit of the rotary disk;
- a gear set combined with the rack member; and
- a driving motor combined with the gear set.

4. The lock of claim 1, wherein a position fixing member is installed in the contact support unit so as to be elastically movable up and down in order to fix a position of the information reproducer inserted into the receiving space by being selectively inserted into the fixing groove, a cam contact surface is formed at a side of the position fixing member, and a fixing protrusion cam is formed on the rotary disk so as to be selectively contacted with the cam contact surface.

5. The lock of claim 1, further comprising:  
a detachment lever installed at a side of the contact support unit in order to detach the information reproducer inserted into the receiving space selectively;

and

a detachment lever driving means installed at the other side of the contact support unit in order to operate the detachment lever.

5           6.       The lock of claim 5, wherein the detachment lever driving means includes:

a cam protrusion formed at the detachment lever; and

a detachment lever cam member having a cam groove in which the cam protrusion is inserted.

10

7.       The lock of claim 1, wherein the separation preventive member includes:

a spring receiving space at the center;

a hinge protrusion portion formed at a side of the spring receiving space;

15       and

a separation preventive protrusion formed at the other side of the spring receiving space so as to be inserted into the separation preventive groove.

20       8.       The lock of claim 7, wherein a slant surface is formed at the end of the separation preventive protrusion.

9.       A lock of information reproducer for car, comprising:

a contact support unit fixed to an inner side of a car so as to have a receiving space for receiving an information reproducer;

25       a separation preventive member installed in the contact support unit in

order to restrict detachment of the information reproducer inserted into the receiving space by being selectively inserted into a separation preventive groove formed at one of the top surface or the bottom surface of the information reproducer;

5           a rotary disk rotatively installed in the contact support unit in order to move the separation preventive member up and down elastically;

          a rotary disk driving means installed in the contact support unit in order to rotate the rotary disk; and

          a release button installed at a side of the contact support unit in order to  
10       release elective connection between the information reproducer and the contact support unit selectively.

10.       The lock of claim 9, wherein a cam contact surface is formed at a side of the separation preventive member, a separation preventive protrusion cam  
15       is formed at the rotary disk so as to be selectively contacted with the cam contact surface of the separation preventive member, and a spring is installed at the separation preventive member in order to support the separation preventive member elastically.

20       11.       The lock of claim 9, wherein the rotary disk driving means includes:

          a rotary disk gear unit formed at the outer circumference of the rotary disk;

          a rack member combined with the gear unit of the rotary disk;

          a gear set combined with the rack member; and

25       a driving motor combined with the gear set.

12. The lock of claim 9, wherein a position fixing member is installed in the contact support unit so as to be elastically movable up and down in order to fix a position of the information reproducer inserted into the receiving space by being selectively inserted into the fixing groove, a cam contact surface is formed at a side of the position fixing member, and a fixing protrusion cam is formed on the rotary disk so as to be selectively contacted with the cam contact surface.

13. The lock of claim 9, further comprising:

a detachment lever installed at a side of the contact support unit in order to detach the information reproducer inserted into the receiving space selectively; and

a detachment lever driving means installed at the other side of the contact support unit in order to operate the detachment lever.

14. The lock of claim 13, wherein the detachment lever driving means includes:

a cam protrusion formed at the detachment lever; and

a detachment lever cam member having a cam groove in which the cam protrusion is inserted.

15. The lock of claim 9, wherein the separation preventive member includes:

a spring receiving space at the center;

a hinge protrusion portion formed at a side of the spring receiving space;

and

a separation preventive protrusion formed at the other side of the spring receiving space so as to be inserted into the separation preventive groove.

5           16.     The lock of claim 15, wherein a slant surface is formed at the end of the separation preventive protrusion.

17.     A lock of information reproducer for car, comprising:

10           a contact support unit fixed to an inner side of a car so as to have a receiving space for receiving an information reproducer;

          a separation preventive groove formed at one of the top surface or bottom surface of the information reproducer;

15           a separation preventive member installed in the contact support unit in order to restrict detachment of the information reproducer inserted into the receiving space by being selectively inserted into the separation preventive groove;

          a separation preventive member driving means installed in the contact support unit in order to move the separation preventive member up and down selectively; and

20           a release button installed at a side of the contact support unit in order to release elective connection between the information reproducer and the contact support unit selectively.

25           18.     The lock of claim 17, wherein the separation preventive member driving means includes:

a rotary disk rotatively installed in the contact support unit in order to move the separation preventive member up and down elastically;

a cam contact surface formed at the end of the separation preventive member;

5 a separation preventive protrusion cam formed at the rotary disk so as to be selectively contacted with the cam contact surface of the separation preventive member;

a spring installed at the separation preventive member in order to support the separation preventive member elastically; and

10 a rotary disk driving means having a rotary disk gear unit formed at the outer circumference of the rotary disk, a rack member combined with the gear unit of the rotary disk, a gear set combined with the rack member and a driving motor combined with the gear set.

15 19. The lock of claim 17, further comprising:

a position fixing member installed in the contact support unit so as to be elastically movable up and down in order to fix a position of the information reproducer inserted into the receiving space by being selectively inserted into the fixing groove; and

20 a position fixing member operating means for operating the position fixing member.

20. The lock of claim 19, wherein the position fixing member operating means includes:

25 a rotary disk rotatively installed in the contact support unit in order to move

the position fixing member up and down elastically;

a cam contact surface formed at a side of the position fixing member;

a position fixing member cam formed at a side of the rotary disk so as to  
be selectively contacted with the cam contact surface of the position fixing  
5 member;

a spring installed at the position fixing member in order to support the  
position fixing member elastically; and

a rotary disk driving means having a rotary disk gear unit formed at the  
outer circumference of the rotary disk, a rack member combined with the gear unit  
10 of the rotary disk, a gear set combined with the rack member and a driving motor  
combined with the gear set.